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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |  | ATTORNEY'S DOCKET NUMBER:<br><b>APLE 2 00010</b>   |
|  |  | U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><div style="font-size: 1.5em; font-weight: bold;">10/580383</div> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/GB04/004869</b>  | INTERNATIONAL FILING DATE<br><b>19 November 2004</b> | PRIORITY DATE CLAIMED<br><b>22 November 2003</b>   |
| TITLE OF INVENTION<br><b>POLYMERIC MATERIALS INCORPORATING A PH INDICATOR DYE</b>  |  |  |
| APPLICANT(S) FOR DO/EO/US<br><b>Eagland et al.</b>   |  |  |
| Applicant submits herewith to the United States Designated/Elected Office (DO/EO/US) the following items and other information: <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p>Items 11 to 20 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement, related PTO-Form 1449 and references (if required) under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An Assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 included.</li> <li>13. <input checked="" type="checkbox"/> A Preliminary Amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer readable form of the sequence listing in accordance with PCT Rule 13.ter.2 and 37 CFR 1.821-1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information: _____</li> </ol> |  |  |

|  |   |                               |         |                       |              |
|--|---|-------------------------------|---------|-----------------------|--------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)  |   | INTERNATIONAL APPLICATION NO. |         | ATTORNEY'S DOCKET NO. |              |
| 10/580383  |   | PCT/US2004/004869             |         | APLE 2 00010          |              |
| 21. <input checked="" type="checkbox"/> Applicant(s) claim(s) small entity status. See 37 CFR 1.27   |   |                               |         | Calculations          | PTO Use Only |
| The following <b>small entity</b> fees have been submitted:  |   |                               |         |                       |              |
| 22. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))   |   | \$150.00                      |         | \$150.00              |              |
| 23. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))  |   |                               |         |                       |              |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) |   | \$0                           |         | \$100.00              |              |
| All other situations   |   | \$100.00                      |         | \$100.00              |              |
| 24. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))   |   |                               |         |                       |              |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) |   | \$0                           |         |                       |              |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority  |   | \$50.00                       |         |                       |              |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB   |   | \$200.00                      |         | \$200.00              |              |
| All other situations   |   | \$250.00                      |         | \$200.00              |              |
| TOTAL OF 22, 23 and 24 =   |   |                               |         | \$0.00                |              |
| Surcharge of \$65.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).     |   |                               |         | \$0.00                |              |
| CLAIMS   | NUMBER FILED  | NUMBER EXTRA                  | RATE    | CALCULATIONS          |              |
| Total Claims   | 32 - 20 =   | 12                            | x \$25  | = \$300.00            | \$300.00     |
| Independent Claims   | 4 - 3 =   | 1                             | x \$100 | = \$100.00            | \$100.00     |
| Multiple Dependent Claim(s)  |   | 0                             | x \$180 | = \$0.00              | \$0.00       |
| Additional fee for specification and drawings filed in paper over 100 sheets   | Group(s):<br>(Group = number of each additional 50 or fraction thereof) | 0                             | x \$125 | = \$0.00              | \$0.00       |
| TOTAL OF ABOVE CALCULATIONS =  |   |                               |         | \$850.00              |              |
| Processing fee of \$65.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).                                   |   |                               |         | +                     | \$0.00       |
| TOTAL NATIONAL FEE =   |   |                               |         | \$850.00              |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.            |   |                               |         | +                     | \$0.00       |
| TOTAL SMALL ENTITY FEES =  |   |                               |         | \$850.00              |              |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: MAIL STOP PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10/580383

SUBSTITUTE FOR PTO-1390 (Rev. 12-2004)  
Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

APR 22 2006  
Rec'd PCT/PTO 22 MAY 2006

- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☐ Please charge Deposit Account No. 06-0308 in the amount of \$ \_\_\_\_\_ to cover the fees identified. A duplicate of this sheet is enclosed.
- c. ☒ Fees indicated above are to be charged to a credit card. The appropriate form PTO-2038 is enclosed for this purpose. If the Credit Card is unable to be charged, please charge any and all fees or credit any overpayment to Deposit Account No. 06-0308.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

**CUSTOMER NUMBER 027885**

Scott A. McCollister  
Fay, Sharpe, Fagan, Minnich & McKee, LLP  
1100 Superior Avenue  
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Cleveland, OH 44114-2579

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Scott A. McCollister  
Name

\_\_\_\_\_  
33,961  
Registration Number

\_\_\_\_\_  
May 22, 2006  
Date

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SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

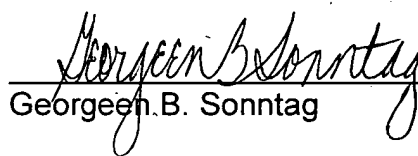
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF : Eagland et al.  
FOR : POLYMERIC MATERIALS  
INCORPORATING A PH INDICATOR  
DYE  
SERIAL NO. : To be assigned  
FILED : Herewith  
ATTORNEY DOCKET NO. : APLE 2 00010

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

"Express Mail" Mailing Label Number: EV 830318783 US  
Date of Deposit: May 22, 2006

I hereby certify that the attached **TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** and accompanying documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10, addressed to: MAIL STOP PCT, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated above.

  
Georgeen B. Sonntag